

Amendments to the Claims.

The following listing of claims replaces all prior versions and listings of claims.

Listing of Claims.

1. (Currently Amended) An address conversion apparatus for connecting a first network to a second network, comprising:

A) a receiving unit that receives a first SNMP trap from a communication apparatus in said first network;

a converter that ~~changes a predetermined part in said first trap to generate~~ generates a second SNMP trap upon including an identifier in said first SNMP trap for identifying a terminal located in the first network; and

a transmitting unit that transmits said second SNMP trap generated by said converter to a monitoring apparatus of said communication apparatus in said second network.

2. (Currently Amended) An address conversion apparatus as claimed in claim 1, wherein said converter changes said predetermined part of an agent address part in said first SNMP trap to a value corresponding to an address in said second network to generate said second SNMP trap.

3. (Currently Amended) An address conversion apparatus as claimed in claim 1, wherein said converter changes said predetermined part of a time stamp part in said first SNMP trap to information for identifying said communication apparatus in said first network to generate said second SNMP trap.

4. (Currently Amended) An address conversion apparatus as claimed in claim 1, wherein said converter changes said predetermined part of a port number in said first SNMP trap to information for identifying said communication apparatus in said first network to generate said second SNMP trap.

AI 5. (Currently Amended) An address conversion apparatus as claimed in claim 1, wherein said converter changes said predetermined part in said first SNMP trap to information for identifying said address conversion apparatus to generate said second SNMP trap.

6. (Currently Amended) An address conversion apparatus as claimed in claim 5, wherein said converter changes said predetermined part of a time stamp part in said first SNMP trap to said information for identifying, said address conversion apparatus to generate said second SNMP trap.

7. (Currently Amended) An address conversion apparatus as claimed in claim 5, wherein said converter changes said predetermined part of a port number in said first SNMP trap to said information for identifying, said address conversion apparatus to generate said second SNMP trap.

8. (Currently Amended) An address conversion apparatus as claimed in claim 1 for connecting a first network to a second network, said address conversion apparatus further comprising:

~~a receiving unit that receives a first SNMP trap from a communication apparatus in said first network;~~

a holding unit that holds said first SNMP trap;

~~a transmitting unit that transmits a second SNMP trap based on said first SNMP trap to a monitoring apparatus of said communication apparatus in said second network; and~~

a reading unit that reads said first SNMP trap from said holding unit in response to a read request of said first SNMP trap, corresponding to said second SNMP trap, from said monitoring apparatus, and transmits said first SNMP trap to said monitoring apparatus.

9. (Currently Amended) An address conversion apparatus as claimed in claim 1 for connecting a first network to a second network, said address conversion apparatus further comprising:

an address management unit that manages one or more addresses allocated to said address conversion apparatus;

~~a receiving unit that receives a first SNMP trap from a communication apparatus in said first network;~~

A) a holding unit that holds said first SNMP trap[[:]], wherein

[[a]] said converter that changes is configured to change said identifier in an agent address part in said first SNMP trap to one of said one or more addresses managed by said address management unit to generate [[a]] said second SNMP trap[[:] and]]

~~a transmitting unit that transmits said second trap generated by said converter to a monitoring apparatus in said second network, wherein~~

said address management unit sets a status of said one of said one or more addresses to generate said second SNMP trap to “in use”, wherein said “in use” status indicates that said address management unit is using said one of said one or more addresses, and

when a status of each of said one or more addresses managed by said address management unit is “in use”, said converter does not generate said second SNMP trap.

10. (Currently Amended) An address conversion apparatus as claimed in claim 9, wherein said address management unit receives, from said monitoring apparatus, SNMP trap processing completion information for setting said “in use” status of said one or more addresses to “no use”, and sets said status of said one or more addresses specified by said SNMP trap processing completion information to “no use”, wherein said “no use” status indicates that said address management unit is not using said one of said one or more addresses.

11. (Original) An address conversion apparatus as claimed in claim 9, wherein after said status of said one or more addresses is set to “in use”, said address management unit detects a previously specified passage of time and sets said “in use” status of said one or more addresses to “no use”.

12. (Currently Amended) An address conversion apparatus as claimed in claim 9, wherein said address management unit obtains an agent address from said first SNMP trap received from said communication apparatus in said first network, and records correspondence of said agent address to said one of said one or more addresses to generate said second SNMP trap, and wherein

said address conversion apparatus further comprises:

an inverter that changes a destination address of a first packet from said monitoring apparatus to said agent address, when said destination address of

said first packet from said monitoring apparatus is said one of said one or more addresses managed by said address management unit, to generate a second packet; and

a transfer unit that transfers said second packet to said communication apparatus in said first network.

13. (Currently Amended) A monitoring apparatus as claimed in claim 15 further comprising receiving an SNMP trap transmitted by a communication apparatus via an address conversion apparatus, wherein said monitoring apparatus includes a specifying unit that specifies said communication apparatus based on an agent address part and a time stamp part in said generated SNMP trap.

14. (Currently Amended) A monitoring apparatus as claimed in claim 15 further comprising receiving an SNMP trap transmitted by a communication apparatus via an address conversion apparatus, wherein said monitoring apparatus includes a specifying unit that specifies said communication apparatus based on an agent address part and a port number in said generated SNMP trap.

15. (Currently Amended) A monitoring apparatus receiving a generated SNMP trap from an address conversion apparatus, connecting a first network to a second network, which receives an SNMP trap from a communication apparatus in said first network, holds said SNMP trap, forms said generated SNMP trap to include an identifier in said first SNMP trap to identify a terminal located in the first network, and transmits said generated SNMP trap, said monitoring apparatus comprising:

a receiving unit that receives said generated SNMP trap; and

a transmitting unit that transmits a request to said address conversion apparatus to read said SNMP trap corresponding to said generated SNMP trap from said address conversion apparatus.

A1 16. (Currently Amended) A computer-readable medium storing an address conversion program for a computer connecting a first network to a second network, the program comprising:

a receiving module that directs said computer to receive a first SNMP trap from a communication apparatus in said first network;

a conversion module that directs said computer to ~~change a predetermined part in said first trap~~ to generate a second SNMP trap upon including an identifier in said first SNMP trap for identifying a terminal located in the first network; and

a transmitting module that directs said computer to transmit said second SNMP trap generated by said computer to a monitoring apparatus of said communication apparatus in said second network.

17. (Currently Amended) A computer-readable medium of claim 16 further comprising another storing a program for a monitoring apparatus that receives [[an]] said second SNMP trap ~~transmitted by a communication apparatus via an address conversion apparatus~~, wherein said another program comprises a specifying module that is operable to make said monitoring apparatus specify said communication apparatus based on an agent address part and a time stamp part in said second SNMP trap.

18. (Currently Amended) A computer-readable medium of claim 16 further comprising another storing a program for a monitoring apparatus that receives [[an]] said second SNMP trap ~~transmitted by a communication apparatus via an address conversion apparatus~~, wherein said another program comprises a specifying module that is operable to make said monitoring apparatus specify said communication apparatus based on an agent address part and a port number in said second SNMP trap.

A2 19. (New) An address conversion apparatus for connecting a first network to a second network, comprising:

a receiving unit that receives a first SNMP trap from a communication apparatus in said first network;

a converter that changes a predetermined part of an agent address part in said first SNMP trap to generate a second SNMP trap including a value corresponding to an alternate address in said second network, where said alternate address is an alternate identifier of said communication apparatus; and

a transmitting unit that transmits said second SNMP trap generated by said converter to a monitoring apparatus of said communication apparatus in said second network,

wherein said agent address part is configurable to simultaneously include multiple values identifying multiple addresses.

20. (New) An address conversion apparatus as claimed in claim 19, wherein said converter changes said predetermined part of a time stamp part in said first SNMP trap to information for identifying said communication apparatus in said first network to generate said second SNMP trap, said information in said predetermined part of said time stamp is another value representative of an address of said communication apparatus.

21. (New) An address conversion apparatus as claimed in claim 19, wherein said converter changes said predetermined part of a port number part in said first SNMP trap to information for identifying said communication apparatus in said first network to generate said second SNMP trap, said information in said predetermined part of said port number part including port number information encoded with another value representative of an address of said communication apparatus.

22. (New) An address conversion apparatus for connecting a first network to a second network, comprising:

a receiving unit that receives a first SNMP trap from a communication apparatus in said first network;

a converter that generates a second SNMP trap by encoding information representative of an address of said address conversion apparatus with other information in a predetermined part of said first SNMP trap; and

a transmitting unit that transmits said second SNMP trap generated by said converter to a monitoring apparatus of said communication apparatus in said second network.

23. (New) An address conversion apparatus as claimed in claim 22, wherein said converter encodes said other information, which is in said predetermined part of a time stamp part in said first SNMP trap, with information representative of said address conversion apparatus to generate said second SNMP trap.

24. (New) An address conversion apparatus as claimed in claim 22, wherein said converter encodes said other information, which is in said predetermined part of a port number part in said first SNMP trap, with information representative of said address conversion apparatus to generate said second SNMP trap.

25. (New) A monitoring apparatus receiving an SNMP trap transmitted by a communication apparatus via an address conversion apparatus, wherein said monitoring apparatus includes a specifying unit that specifies said communication apparatus based on an agent address part and a time stamp part in said SNMP trap, wherein said agent address part includes an alternate address in a second network, said alternate address being an alternate identifier for said communication apparatus, and said time stamp part includes a value representative of an address of said communication apparatus.

26. (New) A monitoring apparatus receiving an SNMP trap transmitted by a communication apparatus via an address conversion apparatus, wherein said monitoring apparatus includes a specifying unit that specifies said communication apparatus based on an agent address part and a port number part in said SNMP trap, wherein said agent address part includes an alternate address in a second network, said alternate address being an alternate identifier for said communication apparatus, and said port number part including information decodable to yield a port number and a value representative of an address of said communication apparatus.